There are described benzoylcyclohexanediones of the formula I, their preparation, and their use as herbicides and plant growth regulators.

$$(R^{5})_{w}$$
 $X^{1}$ 
 $X^{2}$ 
 $X^{1}$ 
 $X^{2}$ 
 $X^{2}$ 
 $X^{3}$ 
 $X^{2}$ 
 $X^{3}$ 
 $X^{4}$ 
 $X^{2}$ 
 $X^{5}$ 
 $X^{5}$ 

In this formula (I), C<sup>1</sup>, C<sup>2</sup>, C<sup>3</sup> are cyclic radicals, X<sup>1</sup> is a hetero atom, X<sup>2</sup> is a chain of carbon atoms, L is a chain-like element, R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup>, R<sup>5</sup> are various radicals, and Y and Z are monoatomic bridge elements.

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